

Special Issue

Mitogen-Activated Protein Kinases: New Insights for Old Cell Signaling Pathways

Message from the Guest Editors

The mitogen-activated protein kinase (MAPK) signaling pathway is a family of protein kinases that regulates many physiological processes, including inflammatory responses, morphogenesis, cell proliferation, differentiation, survival and death. It is well established that mammals express three MAPK subfamilies: (a) the extracellular signal-regulated kinases (ERKs); (b) the c-Jun N-terminal kinases/stress-activated protein kinases (JNKs/SAPKs); and (c) the p38 MAPKs. Depending on distinct stimuli, each MAPK is activated by specific MAPKKs, which in turns can be activated by more than one MAPKKK, increasing the complexity and diversity of MAPK signaling. Importantly, deregulated activation of these signaling pathways are becoming the focus of screening strategies probing for new therapeutic approaches to treat human diseases such as diabetes, neurodegenerative conditions, cardiovascular abnormalities, cancer, inflammation and liver disease.

Guest Editors

Dr. Salvatore Papa

Leeds Institute of Medical Research at St. James's, Faculty of Medicine and Health, University of Leeds, Leeds, UK

Dr. Concetta Bubici

Department of Life Sciences, College of Health and Life Sciences, Brunel University London, London, UK

Deadline for manuscript submissions

closed (30 November 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/57403

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)